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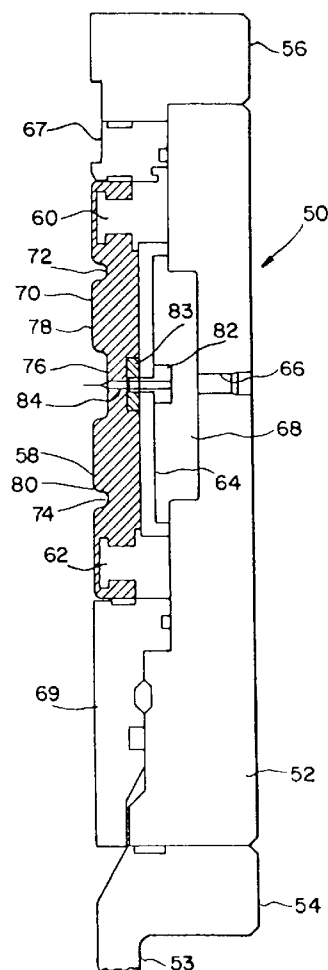
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(54) **Packer for telescopic riser joint.**

(57) An improved riser telescopic joint including a riser mandrel (14), an annular resilient packer (58) carried by the riser mandrel, a telescoping mandrel (12) positioned within and movable with respect to the riser mandrel, a line (66) connected to the riser mandrel for delivering fluid under a predetermined pressure against the exterior of the packer to cause it to seal against the telescoping mandrel and a restricted flow passage (84) communicating from the exterior to the interior of the packer to supply a limited amount of the pressure fluid as a lubricant between the interior of the packer and the exterior of the telescoping mandrel.



**FIG. 3**



European Patent  
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# EUROPEAN SEARCH REPORT

Application Number

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| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                   |                                                   |                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Citation of document with indication, where appropriate, of relevant passages                                     | Relevant to claim                                 | CLASSIFICATION OF THE APPLICATION (Int. Cl.5) |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DE-A-2 841 819 (MANNESMANN AG)<br>* page 4, line 10 - line 20; figure 2 *<br>---                                  | 1-7                                               | E21B17/07<br>F16J15/16                        |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GB-A-2 218 162 (BLOHM + VOSS AG)<br>* page 5, line 1 - line 11 *<br>* page 6, line 5 - line 14; figure 2 *<br>--- | 1-7                                               |                                               |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | US-A-1 768 633 (H.C.RIES)<br>* the whole document *<br>-----                                                      | 1,3-7                                             |                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |                                                   | TECHNICAL FIELDS SEARCHED (Int. Cl.5)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |                                                   | E21B<br>F16J                                  |
| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                   |                                                   |                                               |
| Place of search<br>THE HAGUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                   | Date of completion of the search<br>29 APRIL 1993 | Examiner<br>RAMELMANN K.                      |
| <p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone<br/> Y : particularly relevant if combined with another document of the same category<br/> A : technological background<br/> O : non-written disclosure<br/> P : intermediate document</p> <p>T : theory or principle underlying the invention<br/> E : earlier patent document, but published on, or after the filing date<br/> D : document cited in the application<br/> L : document cited for other reasons<br/> &amp; : member of the same patent family, corresponding document</p> |                                                                                                                   |                                                   |                                               |

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